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Date: March 19, 1999

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BOX PATENT APPLICATION
Assistant Commissioner of Patents
Washington, D. C. 20231

Sir:

Transmitted herewith for filing is a Divisional Patent Application of:

JC530 U.S. PTO
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03/19/99

Inventor(s): Harold W. Milton, Jr.

For : SYSTEM FOR FACILITATING THE PREPARATION OF A PATENT APPLICATION

Enclosed are:

- 1 Sheets of drawings -- Formal, Informal
 An Assignment of the invention to _____
 A certified copy of a _____
 A Combined Declaration and Power of Attorney.
 An Associate Power of Attorney
 A Preliminary Amendment.
 PTO Form 1449 with copies of patents cited in specification (IDS).

The filing fee has been calculated as shown below:

	No. Filed	No. Extra	Small Entity		Large Entity	
Basic Fee					\$ 760.00	
Total Claims	20-20	-0-	@ \$ 9	-0-	@ \$ 18.00	-0-
Indep. Claims	3-3	-0-	@ 39	-0-	@ \$ 78.00	-0-
Multiple Depend. Claim(s) Present		\$ 260.00			TOTAL \$ 380.00	TOTAL \$ _____

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Any additional filing fees required under 37 CFR § 1.16.

Any patent application processing fees under 37 CFR § 1.17.

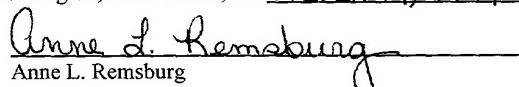
Respectfully Submitted,



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I hereby certify that the enclosed paper or fee is being deposited with the United States Postal Service as Express Mail, postage prepaid, in an envelope as "Express Mail Post Office to Addressee", Mailing Label No. EF752157453US and addressed to the Assistant Commissioner of Patents, Washington, D.C. 20231, on March 19, 1999.


Anne L. Remsburg

**A SYSTEM FOR FACILITATING THE
PREPARATION OF A PATENT APPLICATION**

5

BACKGROUND OF THE INVENTION

1. Field of the Invention

The subject invention relates to a computer system for preparing a patent application and, more particularly, to a computer program and computer to prepare a patent application which is acceptable to and conforms and facilitates the translation and filing in the various jurisdictions of the world.

10

2. Description of the Prior Art

There exists various word processing computer programs which are used to prepare patent applications. However, these programs are generic to various word processing tasks.

15

Time is a very important commodity in the preparation of patent applications yet patent applications are very precise documents which require extreme accuracy and consistency of terminology.

Accordingly, there is a need for a dedicated program and inherent system for efficiently and accurately preparing a patent application.

20

SUMMARY OF THE INVENTION AND ADVANTAGES

A computer program and a computer including a template memory containing a document template containing the headings set forth in this patent with a page break before the heading CLAIMS in the computer program and a page break separating the

heading ABSTRACT OF THE DISCLOSURE from the remainder of the headings in the computer program. Also included is a footer for displaying the attorney file identification in the margin of every page of the application. The program includes a Figure paragraph in the computer program immediately after the heading BRIEF DESCRIPTSON OF THE DRAWINGS and a terminal paragraph in the computer program stating it is to be understood that reference numerals in the claims are merely for convenience and are not to be in any way limiting immediately before the page break before the heading CLAIMS.

The invention is characterized by an independent claim processor for duplicating and storing an independent claim under the heading SUMMARY OF THE INVENTION AND ADVANTAGES and for editing the duplicated independent claim copied under the heading SUMMARY OF THE INVENTION AND ADVANTAGES into grammatically correct sentence structure including changing “said” to --the-- and adding verbs whereby the SUMMARY OF THE INVENTION AND ADVANTAGES is commensurate in scope to said independent claim. The invention is further characterized by a multiple claim processor for duplicating and storing all of the claims under the heading DESCRIPTION OF THE PREFERRED EMBODIMENT and for searching and replacing each occurrence of the word “said” in the duplicate set of claims copied under the heading DESCRIPTION OF THE PREFERRED EMBODIMENT with the word --the--, and for editing the duplicate set of claims into grammatically correct sentence structure. A reference number memory is included for storing successive even numbers beginning with the number ten as well as a Figure number memory for receiving and storing the highest Figure number used to identify Figures of the drawings. A reference number processor is responsive to the Figure number memory for storing the element names of the elements in the order recited in the duplicate set of claims and for searching and replacing each occurrence of

each respective element name in the order of occurrence in the duplicate set of claims with
the respective element name followed by successive ones of the even numbers beginning
with the first number ending in zero following the highest Figure number to provide
identifying reference numerals for the element names in the order of occurrence in the
5 duplicate set of claims. An abstract processor is included for selecting and storing abstract
sentences including the reference numerals from under the heading DESCRIPTION OF
THE PREFERRED EMBODIMENT and duplicating said abstract sentences under the
heading ABSTRACT OF THE DISCLOSURE. A parenthesis processor is included for
automatically enclosing each reference numeral within parentheses in said claims and in
10 said ABSTRACT OF THE DISCLOSURE.

Accordingly, the invention encompasses a method of preparing a patent
application with a computer comprising the steps of: storing a document template in a
computer program which contains the headings set forth herein, storing a page break
before the CLAIMS heading in the computer program, storing a page break before the
15 ABSTRACT OF THE DISCLOSURE heading in the computer program, storing a footer
in the computer program for displaying the attorney file identification on every page of the
application, drafting an independent claim ending in a clause beginning with the words
“characterized by” and reciting and isolating the patentable novelty and preceded by at
least one clause reciting prior art elements to the extent necessary to support and provide
20 antecedent basis for the characterized by clause, drafting claims ultimately dependent
upon the independent claim for successively more specifically defining the patentable
novelty; and characterized by storing a duplicate set of all of the claims in the computer

program, and retrieving the duplicate set of claims under the heading DESCRIPTION OF THE PREFERRED EMBODIMENT.

BRIEF DESCRIPTION OF THE DRAWING

5 Other advantages of the present invention will be readily appreciated as the same becomes better understood by reference to the following detailed description when considered in connection with the accompanying drawings wherein Figure 1 is a block diagram of the components of the subject invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

10 Referring to the Figure, a computer program and a computer is illustrated as comprising a template memory **10** containing a document template containing the same heading this patent contains, to wit:

BACKGROUND OF THE INVENTION

1) Field of the Invention

15 2) Description of the Prior Art

SUMMARY OF THE INVENTION AND ADVANTAGES

BRIEF DESCRIPTION OF THE DRAWINGS

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

CLAIMS, and

20 ABSTRACT OF THE DISCLOSURE.

5

The template memory **10** also includes an imbedded page break immediately before said heading CLAIMS in the computer program. Accordingly, the heading CLAIMS and the following claims always begin a new page. In addition, a page break is embedded in template memory **10** for separating the heading ABSTRACT OF THE DISCLOSURE from the remainder of the headings in the computer program. In other words, the ABSTRACT is isolated to a single page separate from the remainder of the patent application. A footer is embedded in the template memory **10** for displaying the attorney file identification in the margin of every page of the application, preferably in the lower left hand corner so as to be unencumbered by attachments at the tops of the pages, e.g., staples, clasps, or the like.

10

The template memory **10** will also contain certain generic paragraphs such as the last two paragraphs of this specification immediately before said page break preceding the heading CLAIMS to make it clear that not every nuance of the invention can be covered in a patent application and that the invention is defined by the scope of the claims. In addition, immediately after the heading BRIEF DESCRIPTION OF THE DRAWINGS the template memory **10** will include another generic paragraph:

15

Other advantages of the present invention will be readily appreciated as the same becomes better understood by reference to the following detailed description when considered in connection with the accompanying drawings wherein:

20

Figure 1 is ;

Figure 2 is ;

Figure 3 is;

Figure 4 is ; and

Figure 5 is .

The invention is characterized by an independent claim processor **12** for
5 duplicating and storing an independent claim under the heading SUMMARY OF THE
INVENTION AND ADVANTAGES and for editing the duplicated independent claim
copied under the heading SUMMARY OF THE INVENTION AND ADVANTAGES
into grammatically correct sentence structure including changing “said” to --the-- and
adding verbs whereby the SUMMARY OF THE INVENTION AND ADVANTAGES
10 is commensurate in scope to said independent claim. The independent claim processor **12**
will code the space between the SUMMARY OF THE INVENTION AND
ADVANTAGES and the next adjacent title BRIEF DESCRIPTSON OF THE
DRAWINGS to automatically replace the word “said” with --the--. The independent
claim processor **12** will also automatically provide correct sentence structure, which, of
15 course, can be manually changed by using a keyboard.

Also characterizing the invention is a multiple claim processor 14 for duplicating and storing all of the claims under the heading DESCRIPTION OF THE PREFERRED EMBODIMENT and for searching and replacing each occurrence of the word "said" in the duplicate set of claims copied under the heading DESCRIPTION OF THE PREFERRED EMBODIMENT with the word --the--, and for editing the duplicate set of claims into grammatically correct sentence structure. The multiple claim processor 14 will code the space under the heading DESCRIPTION OF THE PREFERRED

EMBODIMENT to automatically replace the word "said" with --the-- and to automatically correct sentence structure which can be manually changed.

Also included are a reference number memory **16** for storing successive even numerals beginning with the number ten and a Figure number memory **18** for receiving and storing the highest Figure number used to identify Figures of the drawings. A reference number processor **20** is responsive to the Figure number memory **18** for storing the element names of the elements in the order recited in the duplicate set of claims and for searching and replacing each occurrence of each respective element name in the order of occurrence in the duplicate set of claims with the respective element name followed by successive ones of the even numbers beginning with the first number ending in zero following the highest Figure number to provide identifying reference numerals for the element names in the order of occurrence in the duplicate set of claims. In other words, the highest number used to identify Figures of the drawings will be entered into the Figure number memory **18** and the reference number processor **20** stores numbers beginning with the number ten and will automatically begin assigning reference numerals to the elements beginning with the next number ending in zero above the highest number used to identify a Figure of the drawings. The reference number processor **20** will also build a list of elements with reference numerals and will automatically shift the reference numerals in the list of elements, which is in the order first recited in the description, in the event an additional element is interleaved in the description.

An abstract processor **22** is included for selecting and storing abstract sentences including said reference numerals from under said heading DESCRIPTION OF THE PREFERRED EMBODIMENT and duplicating the abstract sentences under the heading

5

ABSTRACT OF THE DISCLOSURE. The operator will select certain sentences from the description in order of presentation and the abstract processor **22** will store such sentences for duplication and presentation under the heading ABSTRACT OF THE DISCLOSURE. This presentation is of the disclosure for the benefit of those skilled in the art and searchers without the legalize of claim language and is most beneficial when specifically reciting the structure of the invention.

10

A parenthesis processor **24** is included for automatically enclosing each reference numeral within parentheses in the claims and in the ABSTRACT OF THE DISCLOSURE. In other words, the claims and the abstract are to be written in a form which is not dependent upon nor reliant upon the reference numerals for clarity or interpretation; the reference numerals are there for convenience and efficiency. An important attribute of including the reference numerals in the claim and abstract is to facilitate accurate translation for foreign languages.

15

The invention, therefore, encompasses a method of preparing a patent application with a computer characterized by performing the following steps.

20

The first step is the storing **10** of a document template in a computer program which contains the headings recited above and used in this application.

The second step is the storing of a page break in the computer program before the CLAIMS heading.

The third step is the storing of a page break in the computer program before the heading ABSTRACT OF THE DISCLOSURE.

The fourth step is the storing a footer in the computer program for displaying the attorney file identification on every page of the application, preferably in the lower left hand corner.

5 The fifth step is the storing of a Figure paragraph in the computer program immediately after the heading BRIEF DESCRIPTSON OF THE DRAWINGS.

The sixth step is the storing a terminal paragraph in the computer program stating it is to be understood that reference numerals in the claims are merely for convenience and are not to be in any way limiting immediately before the page break before the heading CLAIMS.

10 After all of the preceding steps are complete, the seventh step is the drafting of an independent claim beginning with the words characterized by and ending in a clause reciting and isolating the patentable novelty and preceded by at least one clause reciting prior art elements only to the extent necessary to support and provide antecedent basis for the recitations in the characterized by clause. This independent claim is stored in the program and is absent of any reference numerals.

15 The next or eight step is the drafting of dependent claims al of which are ultimately dependent upon the independent claim for successively more specifically defining the patentable novelty. Certainly, the first dependent claim two should further define the novelty set forth in the characterized by clause of the independent claim and such novelty should be more successively defined in subsequent dependent claims, adding that which is old to the extent necessary to support further definition of the novelty.

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After all of the claims have been drafted, the ninth step is the storing **12** of a duplicate of the independent claim in the computer program followed by retrieving and presenting the stored independent claim under the heading SUMMARY OF THE INVENTION AND ADVANTAGES. This ninth step includes the automatic editing of the duplicate independent claim copied under the heading SUMMARY OF THE INVENTION AND ADVANTAGES into grammatically correct sentence structure including changing the word “said” to --the-- and adding verbs. This should be without adding further description whereby the SUMMARY OF THE INVENTION AND ADVANTAGES is commensurate in scope to the independent claim. This is important because in some countries the paragraph summarizing the invention must not be any more narrow than the broadest independent claim to prevent the broadest independent claim from being interpreted in the same scope as the summary of the invention.

The tenth step is then the storing **14** a duplicate set of all of the claims in the computer program, and retrieving and presenting the duplicate set of claims under the heading DESCRIPTION OF THE PREFERRED EMBODIMENT. This basic step must be performed only after all of the claims have finalized in order to make certain that the description uses exactly the same terminology as the claims, and vice versa. Of course, an essential eleventh step is the searching for each occurrence of the word “said” in the duplicate set of claims copied into the specification, programming the computer program to replace the word “said” with the word --the-- in the duplicate set of claims copied into the specification, and editing the duplicate set of claims copied into the specification into grammatically correct sentence structure including adding verbs. All of these automatic corrections can be changed manually by the operator. The step of interspersing alternative

phrasing of several of the edited clauses of the duplicate set of claims is usually included. Sometimes claim language can be cumbersome and alternative names and phrases can be clarifying and can provide alternative claim language for the examiner. Of course, the order of presentation of the claims in the duplicate set of claims can be rearranged in the 5 description for the most logical and/or fluid presentation. e.g., changing the order of apparatus and method or bringing up every further definition of an element in juxtaposition to the first mention of the element.

The twelfth step is the storing **16** of the element names in the computer program. 10 of the elements in the order recited in the duplicate set of claims. This step includes storing **18** in the computer program successive even numbers beginning with a number above the highest Figure number to identify the respective element names. As stated above and by example, if the highest number used to identify a Figure in the drawings is between ten and nineteen, then the first number used for a reference numeral would be twenty, i.e., the next number ending in zero. This step also includes searching **20** in the computer program for 15 each occurrence of each respective element name in the order of occurrence in the duplicate set of claims (now the description) and replacing each respective element name with that respective element name followed by successive ones of the even numbers to provide identifying reference numerals for the element names in the order of occurrence in the duplicate set of claims. It is important that the reference numeral be automatically 20 added to any addition of the element name in subsequent editing. In other words, the elements are assigned reference numerals in the order of appearance or presentation in the description whereby the reference numerals are first presented in numerical order. In a more specific sense, the method includes the increments of storing of the element name

of the first element recited in the duplicate set of claims and shown in the drawings, storing the first element name followed by a first selected even number above the highest numeral used to identify a Figure in the drawings, searching for each occurrence of the first element name and replacing same with the first element name followed by the selected even number to provide a first identifying reference numeral for the first element name.

This is then followed by storing the element name of the second element recited in the duplicate set of claims, which is shown in the drawings, storing the second element name followed by the next even number following the reference numeral used to identify the first element name, searching for each occurrence of the second element name and replacing same with the second element name followed by said next even number to provide a second identifying reference numeral for the second element name. This sequence is repeated until all of the elements recited in the description and shown in the drawings are provided reference numerals.

15 A thirteenth step is the adding of each reference numeral to every showing of the element in the drawings, which can be performed at any convenient juncture but is preferably performed immediately in response to that element being assigned a reference numeral. It is important that the reference numeral be applied to every showing of an element in the drawings and not in just one Figure. Conversely, it is important to verify that each line in the drawing is clearly described in the specification.

20 After the description is in final form, the fourteenth step is the selecting and storing
22 in the computer program of abstract sentences, including the reference numerals, from
under the heading DESCRIPTION OF THE PREFERRED EMBODIMENT which most
succinctly and specifically describe the elements shown in the drawings. These sentences

are accumulated in order of presentation and are selected so that the a description of the elements in the characterized by clause is commensurate with the specificity recited in dependent claims. Again, since the abstract is to be more specific and avoid broad claim language, it should include the specificity usually set forth in dependent claims. These sentences are retried the heading ABSTRACT OF THE DISCLOSURE.

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The fifteenth step is the storing 24 in the computer program each reference numeral recited in the CLAIMS and in the ABSTRACT OF THE DISCLOSURE within parenthesis (), searching in the computer program and replacing each such reference numeral in the CLAIMS and in the ABSTRACT OF THE DISCLOSURE with the corresponding stored reference number within parentheses (). Preferably, all of the numerals and parenthesis when used should be in bold type.

A sixteenth step is the drafting of a second paragraph under the heading SUMMARY OF THE INVENTION AND ADVANTAGES reciting the advantages of the patentable novelty set forth in the characterized by clause.

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The method includes finishing steps which may be performed in any order. One is the drafting of a sentence under the Technical Field heading stating the art to which the invention contributes. Another is the step of drafting a description of the specific state of the prior art under the heading Prior Art ending with the problem which the characterized by clause solves. The most pertinent and best prior art found in the novelty search should be recited under this heading, i.e., the prior art patents round which the claims were drafted, but not necessarily all of the patents noted in the novelty search. After the problem or void in the prior art has been framed at the end of the prior art section, a

second paragraph should be drafted under the heading SUMMARY OF THE INVENTION AND ADVANTAGES reciting the advantages of the patentable novelty set forth in the characterized by clause, i.e., the void in the prior art filled by the invention. The advantages, of course, are the mirror or are the results of the solution to the problem provided by the invention, as summarized in the immediately preceding paragraph. In some cases, it will be necessary to add a heading RELATED APPLICATION and drafting a paragraph identifying a related application. This paragraph can be embedded into the template memory and edited or deleted depending upon the status of the application being prepared. It is also necessary to draft a subparagraph for each Figure of the drawings under the heading BRIEF DESCRIPTION OF THE DRAWINGS to identify the type of view and what is shown.

The invention has been described in an illustrative manner, and it is to be understood that the terminology which has been used is intended to be in the nature of words of description rather than of limitation.

Obviously, many modifications and variations of the present invention are possible in light of the above teachings. It is, therefore, to be understood that within the scope of the appended claims, wherein reference numerals are merely for convenience and are not to be in any way limiting, the invention may be practiced otherwise than as specifically described.

CLAIMS

What is claimed is:

1. A method of preparing a patent application with a computer comprising the steps of:

5 storing (10) a document template in a computer program which contains the headings:

BACKGROUND OF THE INVENTION

10 1) Field of the Invention

10 2) Description of the Prior Art

SUMMARY OF THE INVENTION AND ADVANTAGES

BRIEF DESCRIPTION OF THE DRAWINGS

15 DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

CLAIMS

ABSTRACT OF THE DISCLOSURE;

storing a page break before the CLAIMS heading in the computer program;

storing a page break before the ABSTRACT OF THE DISCLOSURE heading in the computer program;

storing a footer in the computer program for displaying the attorney file identification on every page of the application;

5 drafting an independent claim ending in a clause beginning with the words “characterized by” and reciting and isolating the patentable novelty and preceded by at least one clause reciting prior art elements to the extent necessary to support and provide antecedent basis for the characterized by clause;

10 drafting claims ultimately dependent upon the independent claim for successively more specifically defining the patentable novelty; and

characterized by storing (14) a duplicate set of all of the claims in the computer program, and retrieving the duplicate set of claims under the heading DESCRIPTION OF THE PREFERRED EMBODIMENT.

2. The method as set forth in claim 1 including the step of searching for each occurrence of the word said in the duplicate set of claims copied into the specification, programming the computer program to replace the word “said” with the word --the-- in the duplicate set of claims copied into the specification, and editing the duplicate set of claims copied into the specification into grammatically correct sentence structure including adding verbs.

20 3. The method as set forth in claim 2 including the steps of storing (12) a duplicate of the independent claim in the computer program, retrieving the duplicate

independent claim under the heading SUMMARY OF THE INVENTION AND ADVANTAGES, and editing the duplicate independent claim copied under the heading SUMMARY OF THE INVENTION AND ADVANTAGES into grammatically correct sentence structure including changing “said” to --the-- and adding verbs without adding further description whereby the SUMMARY OF THE INVENTION AND ADVANTAGES is commensurate in scope to the independent claim.

4. The method as set forth in claim 3 including the steps (16, 18, 20) of storing the element name of the first element recited in the duplicate set of claims and shown in the drawings, storing the first element name followed by a first selected even number above the highest numeral used to identify a Figure in the drawings, searching for each occurrence of the first element name and replacing same with the first element name followed by the selected even number to provide a first identifying reference numeral for the first element name.

5. The method as set forth in claim 4 including the steps (16, 18, 20) of storing the element name of the second element recited in the duplicate set of claims and shown in the drawings, storing the second element name followed by the next even number following the reference numeral used to identify the first element name, searching for each occurrence of the second element name and replacing same with the second element name followed by said next even number to provide a second identifying reference numeral for the second element name.

6. The method as set forth in claim 5 including the steps adding each reference numeral to every showing of the element in the drawings in response to that element being assigned a reference number.

7. The method as set forth in claim 3 including the steps (16, 18, 20) of storing
5 the element names of the elements in the order recited in the duplicate set of claims,
storing successive even numbers beginning with a number above the highest Figure
number to identify the respective element names, and searching for each occurrence of
each respective element name in the order of occurrence in the duplicate set of claims and
replacing each respective element name with that respective element name followed by
10 successive ones of said even numbers to provide identifying reference numerals for the
element names in the order of occurrence in the duplicate set of claims.

8. The method as set forth in claim 7 including the step of interspersing
alternative phrasing of several of the edited clauses of the duplicate set of claims.

9. The method as set forth in claim 7 including the steps (22) of selecting and
15 storing abstract sentences including reference numbers from under the heading
DESCRIPTION OF THE PREFERRED EMBODIMENT which most succinctly and
specifically describe the elements shown in the drawings with a description of the elements
in the characterized by clause commensurate with the specificity recited in dependent
claims, and retrieving the abstract sentences under the heading ABSTRACT OF THE
20 DISCLOSURE.

10. The method as set forth in claim 9 including the step (24) of storing each
reference numeral recited in the CLAIMS and in the ABSTRACT OF THE

DISCLOSURE within parenthesis (), searching and replacing each such reference number in the CLAIMS and in the ABSTRACT OF THE DISCLOSURE with the corresponding stored reference number within parentheses ().

11. The method as set forth in claim 10 including the step of drafting a sentence under the Technical Field heading stating the art to which the invention contributes.

12. The method as set forth in claim 11 including the step of drafting a description of the specific state of the prior art under the heading Prior Art ending with the problem which the characterized by clause solves.

13. The method as set forth in claim 12 including the step of drafting a second paragraph under the heading SUMMARY OF THE INVENTION AND ADVANTAGES reciting the advantages of the patentable novelty set forth in the characterized by clause.

14. The method as set forth in claim 13 including the step of adding a heading RELATED APPLICATION and drafting a paragraph identifying a related application.

15. The method as set forth in claim 13 including the step of verifying that each line in the drawing is clearly described in the specification.

16. The method as set forth in claim 13 including the step of drafting a subparagraph for each Figure of the drawings under the heading BRIEF DESCRIPTION OF THE DRAWINGS to identify the type of view and what is shown.

17. The method as set forth in claim 14 wherein the step of storing a document template in a computer program is further defined as storing the following paragraph immediately after the heading BRIEF DESCRIPTSON OF THE DRAWINGS

Other advantages of the present invention will be readily appreciated as the same becomes better understood by reference to the following detailed description when considered in connection with the accompanying drawings wherein:

5 *Figure 1 is ;*

Figure 2 is ;

Figure 3 is ;

Figure 4 is ; and

Figure 5 is .

10

18. The method as set forth in claim 13 wherein the step of storing a document template in a computer program is further defined as storing the following paragraphs immediately before the page break before the heading CLAIMS:

15 *The invention has been described in an illustrative manner, and it is to be understood that the terminology which has been used is intended to be in the nature of words of description rather than of limitation.*

20 *Obviously, many modifications and variations of the present invention are possible in light of the above teachings. It is, therefore, to be understood that within the scope of the appended claims, wherein reference numerals are merely for convenience and are not to be in any way limiting, the invention may be practiced otherwise than as specifically described.*

25

19. A method of preparing a patent application with a computer characterized ✓

by performing the following steps:

storing (10) a document template in a computer program which contains the headings,

BACKGROUND OF THE INVENTION

1)Field of the Invention

5 2)Description of the Prior Art

SUMMARY OF THE INVENTION AND ADVANTAGES

BRIEF DESCRIPTSON OF THE DRAWINGS

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

CLAIMS

10 ABSTRACT OF THE DISCLOSURE;

storing a page break in the computer program before the CLAIMS heading;

storing a page break in the computer program before the heading ABSTRACT OF
THE DISCLOSURE;

storing a footer in the computer program for displaying the attorney file
identification on every page of the application;

storing a Figure paragraph in the computer program immediately after the heading
BRIEF DESCRIPTSON OF THE DRAWINGS;

storing a terminal paragraph in the computer program stating it is to be understood
that reference numerals in the claims are merely for convenience and are not to be in any
way limiting immediately before the page break before the heading CLAIMS;

drafting an independent claim beginning with the words characterized by and
ending in a clause reciting and isolating the patentable novelty and preceded by at least

one clause reciting prior art elements only to the extent necessary to support and provide antecedent basis for the recitations in the characterized by clause;

drafting claims ultimately dependent upon the independent claim for successively more specifically defining the patentable novelty;

5 storing (12) a duplicate of the independent claim in the computer program, retrieving the stored independent claim under the heading SUMMARY OF THE INVENTION AND ADVANTAGES, and editing the duplicate independent claim copied under the heading SUMMARY OF THE INVENTION AND ADVANTAGES into grammatically correct sentence structure including changing the word “said” to --the-- and adding verbs without adding further description whereby the SUMMARY OF THE INVENTION AND ADVANTAGES is commensurate in scope to the independent claim;

10 storing (14) a duplicate set of all of the claims in the computer program, and retrieving the duplicate set of claims under the heading DESCRIPTION OF THE PREFERRED EMBODIMENT;

15 searching for each occurrence of the word “said” in the duplicate set of claims copied into the specification, programming the computer program to replace the word “said” with the word --the-- in the duplicate set of claims copied into the specification, and editing the duplicate set of claims copied into the specification into grammatically correct sentence structure including adding verbs;

20 storing the element names in the computer program of the elements in the order recited in the duplicate set of claims, storing (16) in the computer program successive even numbers beginning with a number above the highest Figure number (18) to identify the respective element names, and searching (20) in the computer program for each occurrence of each respective element name in the order of occurrence in the duplicate

DETAILED DESCRIPTION

set of claims and replacing each respective element name with that respective element name followed by successive ones of the even numbers to provide identifying reference numerals for the element names in the order of occurrence in the duplicate set of claims;

5 adding each reference numeral to every showing of the element in the drawings in response to that element being assigned a reference numeral;

selecting and storing (22) in the computer program abstract sentences including reference numbers from under the heading DESCRIPTION OF THE PREFERRED EMBODIMENT which most succinctly and specifically describe the elements shown in the drawings with a description of the elements in the characterized by clause commensurate with the specificity recited in dependent claims, and retrieving the abstract 10 sentences under the heading ABSTRACT OF THE DISCLOSURE;

storing (24) in the computer program each reference numeral recited in the CLAIMS and in the ABSTRACT OF THE DISCLOSURE within parenthesis (), searching in the computer program and replacing each such reference numeral in the 15 CLAIMS and in the ABSTRACT OF THE DISCLOSURE with the corresponding stored reference number within parentheses ().

20. A computer program and a computer comprising:

a template memory 10 containing a document template containing the headings,

20 BACKGROUND OF THE INVENTION

1) Field of the Invention

2) Description of the Prior Art

SUMMARY OF THE INVENTION AND ADVANTAGES

BRIEF DESCRIPTON OF THE DRAWINGS

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

CLAIMS

ABSTRACT OF THE DISCLOSURE; and

5 a page break before said heading CLAIMS in the computer program; and

a page break separating said heading ABSTRACT OF THE DISCLOSURE from
the remainder of said headings in the computer program; and

a footer for displaying the attorney file identification in the margin of every page
of the application; and

10 the paragraph

Other advantages of the present invention will be readily
appreciated as the same becomes better understood by reference to
the following detailed description when considered in connection
with the accompanying drawings wherein:

15 Figure 1 is ;

Figure 2 is ;

Figure 3 is ;

Figure 4 is ; and

Figure 5 is .

20 immediately after the heading BRIEF DESCRIPTON OF THE DRAWINGS;

the following paragraphs

The invention has been described in an illustrative manner,
and it is to be understood that the terminology which has been used is intended
to be in the nature of words of description rather than of limitation.

5 Obviously, many modifications and variations of the present
invention are possible in light of the above teachings. It is, therefore,

 to be understood that within the scope of the appended claims, wherein
reference numerals are merely for convenience and are not to be in
any way limiting, the invention may be practiced otherwise than as

10 specifically described.

immediately before said page break preceding the heading CLAIMS;

 and characterized by an independent claim processor (12) for duplicating and
storing an independent claim under the heading SUMMARY OF THE INVENTION
AND ADVANTAGES and for editing the duplicated independent claim copied under the
heading SUMMARY OF THE INVENTION AND ADVANTAGES into grammatically
correct sentence structure including changing “said” to --the-- and adding verbs whereby
the SUMMARY OF THE INVENTION AND ADVANTAGES is commensurate in scope
to said independent claim;

5

a multiple claim processor (14) for duplicating and storing all of the claims under said heading DESCRIPTION OF THE PREFERRED EMBODIMENT and for searching and replacing each occurrence of the word "said" in said duplicate set of claims copied under the heading DESCRIPTION OF THE PREFERRED EMBODIMENT with the word --the--, and for editing said duplicate set of claims into grammatically correct sentence structure;

10
a reference number memory (16) for storing successive even numbers beginning with the number ten;

15
a Figure number memory (18) for receiving and storing the highest Figure number used to identify Figures of the drawings;

20
a reference number processor (20) responsive to said Figure number memory (18) for storing the element names of the elements in the order recited in said duplicate set of claims and for searching and replacing each occurrence of each respective element name in the order of occurrence in said duplicate set of claims with said respective element name followed by successive ones of said even numbers beginning with the first number ending in zero following the highest Figure number to provide identifying reference numerals for said element names in the order of occurrence in said duplicate set of claims;

25
an abstract processor (22) for selecting and storing abstract sentences including said reference numerals from under said heading DESCRIPTION OF THE PREFERRED EMBODIMENT and duplicating said abstract sentences under said heading ABSTRACT OF THE DISCLOSURE; and

a parenthesis processor (24) for automatically enclosing each reference numeral within parentheses in said claims and in said ABSTRACT OF THE DISCLOSURE.

5

**A SYSTEM FOR FACILITATING THE
PREPARATION OF A PATENT APPLICATION
ABSTRACT OF THE DISCLOSURE**

A computer program and a computer for drafting a patent application including a
5 template memory for storing and duplication standard headings and paragraphs of a patent
and which interacts with other memories and processors to provide a structure and
process to follow in preparing a patent application. An independent claim processor (12)
duplicates an independent claim under the heading SUMMARY OF THE INVENTION
AND ADVANTAGES and edits same into a grammatically correct sentence structure.
10 A multiple claim processor (14) duplicates all of the claims under the heading
DESCRIPTION OF THE PREFERRED EMBODIMENT and edits same into
grammatically correct sentence structure. Also included are a reference number memory
(16), which stores successive even numerals beginning with the number ten, and a Figure
number memory (18), which stores the highest Figure number used to identify Figures of
15 the drawings. A reference number processor (20) is responsive to the Figure number
memory (18) for searching and adding an reference numerals to the element names in the
order of occurrence. An abstract processor (22) is included for selecting and storing and
duplicating abstract sentences into the abstract from the description. A parenthesis
processor (24) is included for automatically enclosing each reference numeral within
20 parentheses in the claims and in the abstract.

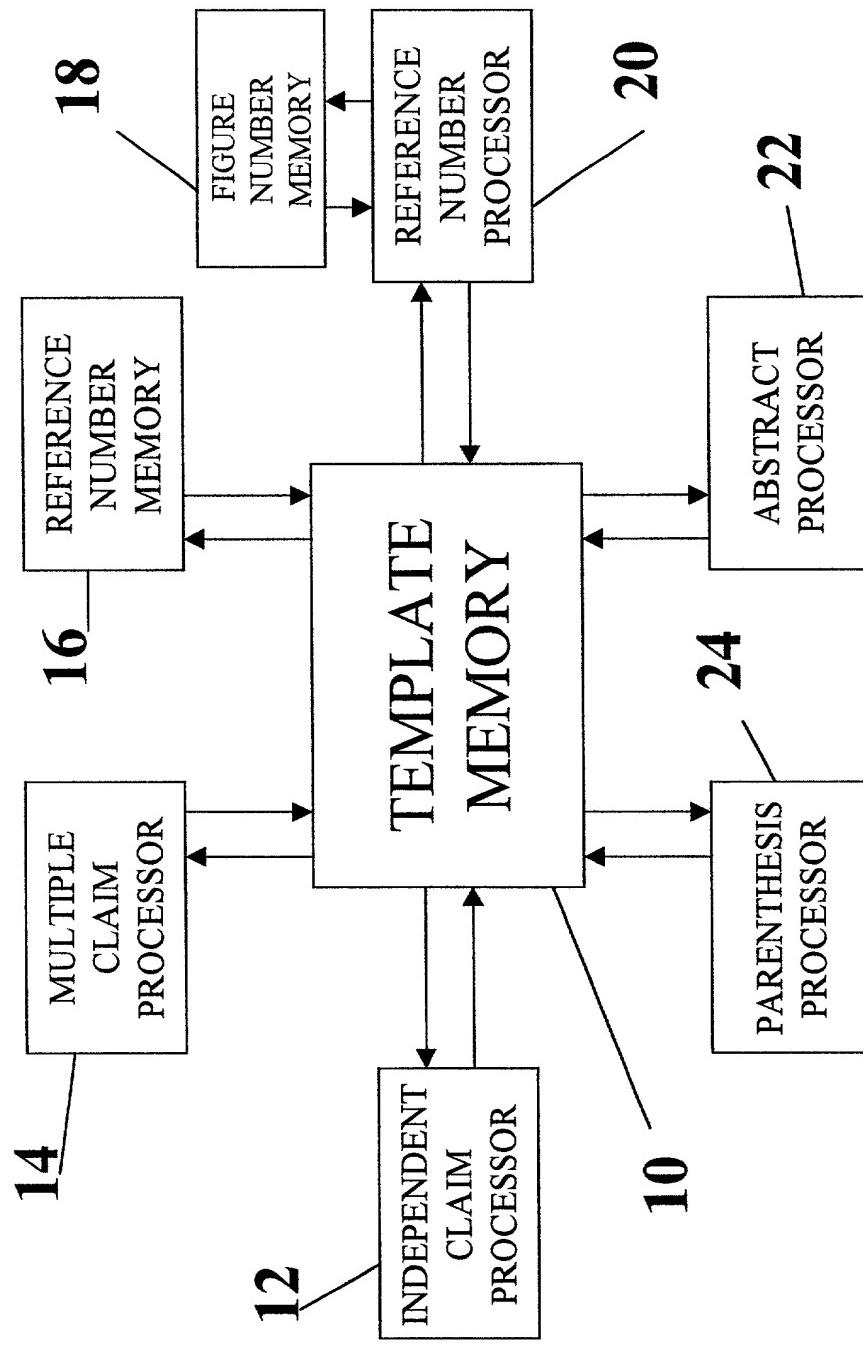


FIG. 1

COMBINED DECLARATION AND POWER OF ATTORNEY
(Original Application - Sole Inventor No Priority Claimed)

As the below named inventor, I hereby declare: that my residence, post office address and citizenship are as stated near my name below; that I believe I am the original, first and sole inventor of the subject matter of which is claimed and for which a patent is sought on the invention entitled

**SYSTEM FOR FACILITATING THE
PREPARATION OF A PATENT APPLICATION**

which is described and claimed in the attached specification having the attorney docket number **Milt.777** and amended by an amendment thereto submitted therewith (if any); that I have reviewed and understand the contents of this specification, including the claims, as amended by any amendment referred to above; that I do not know and do not believe the same was ever known or used in the United States of America before my invention thereof or patented or described in any printed publication, in any country before my invention thereof for more than one year prior to this application, or in public use or on sale in the United States of America more than one year prior to this application; that the invention has not been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve (12) months prior to this application; that I acknowledge my duty to disclose information of which I am aware which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a); and that no application for patent or inventor's certificate on this invention has been filed in any country foreign to the United States of America prior to this application by me or my legal representatives or assigns except as follows: NONE.

As a named inventor, I hereby appoint the following attorneys and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith with full power of substitution and revocation. (all names listed with corresponding registration numbers)

Harold W. Milton, Jr. 22,180

Please address all correspondence and telephone calls to:

**Hal Milton
211 Townsend
Birmingham, Michigan 48009**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

3/16/99

Date

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